RFD4031 RFID Premium/Premium+ Sled



Product Reference Guide

2023/10/09

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About this Document

This guide provides information about setting up and using the RFD4031 UHF FRID Premium/Premium+ sled. Some screens shown in this guide may differ from the actual screens shown on the device.

Related Documents

The following documents provide additional information about the RFD4031 sled:

RFD4031 RFID Premium/Premium+ Quick Start Guide, p/n MN-004375-xx

Notational Conventions

The following conventions are used in this document:

Bold text is used to highlight the following:

- Dialog box, window, and screen names.
- Drop-down list and list box names.
- · Checkbox and radio button names.
- Checkbox and radio button names lcons on a screen.
- Key names on a keypad
- Button names on a screen

Bullets (•) indicate:

- Action items
- List of alternatives
- · Lists of required steps that are not necessarily sequential

Sequential lists (for example, those that describe step-by-step procedures) appear as numbered lists.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: zebra.com/support.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

Getting Started with the RFD4031

The RFD4031 UHF RFID Premium sled provides RAIN Radio Frequency Identification (RFID) tag reading, writing, and locating capability to supported Zebra mobile computers and other host devices.

To use the RFD4031 sled for the first time with a mobile computer:

- 1. Insert the battery into the device.
- 2. Charge the RFD4031 sled using the charging cradle, charging cup, or USB-C cable.
- **3.** Replace the cover with the adaptor that is specific to the mobile computer to be used with the sled.
- 4. Place the mobile computer into the adaptor headfirst.
- 5. Secure the mobile computer into the adaptor by pressing down on the bottom of the mobile computer.
- 6. Set the region using 123RFID Desktop or 123RFID Mobile.

For the latest versions of guides and software, go to: zebra.com/support.

For detailed information, refer to the Product Reference Guide at: zebra.com/support.

Unpacking

This chapter provides information on RFD4031 RFID Premium sled parts, battery installation, mobile device attachment, LED indications, and charging. Carefully remove all protective material from the RFD4031 RFID Premium sled and save the shipping container for later storage and shipping.

Verify the following items are in the box:

- RFD4031 RFD Premium or Premium Plus Sled
- Battery
- Lanyard
- Quick Start Guide

Inspect the equipment for damage. If any equipment is missing or damaged, contact the Zebra Support Center immediately.

For a full list of accessories that can be used with the RFD4031 Premium/Premium Plus sled, refer to the product specific Technical Accessory Guide available at <u>zebra.com/support.</u>

Adaptor Installation

RFD4031 Ultra-Rugged UHF RFID sleds can be used with various mobile devices by using an adaptor to mount the device onto the sled.

To install the adaptor:

1. Remove the cover of the sled by pulling up on the lip.



2. Ensure that the pogo pins are aligned and insert the adaptor into the sled.



NOTE: When installing the adaptor, use caution and ensure that the pogo pins are lined up directly prior to insertion into the sled.



3. Secure the adaptor onto the RFD4031 by fastening the four coin screws into the sled.



Device Installation

To secure a mobile computer to the RFD4031 sled, place the top of the device fully forward into the RFD4031 sled adaptor and push down on the bottom of the mobile computer.



NOTE: Refer to the installation visual aide on the adaptor to view the correct device orientation for installation. For additional installation information, scan the QR code on the label to view the installation video.



NOTE: Use caution while installing the mobile computer into the adaptor and do not collide with the eConnex Communication Port.





Device Removal

To remove the mobile computer from the RFD4031 sled, firmly hold the sled handle and lift the device off of the sled adaptor.

Figure 2 Device Removal



Battery Replacement

The following section outlines the procedure for replacing the battery in the RFD4031.

To install the battery:

Figure 3 Battery Insertion



- 1. Align the battery with the notch facing the back of the device
- **2.** Slide the battery into the handle of the device.

3. Snap the battery into the place.

Battery Removal

To remove the battery:

Figure 4 Battery Removal



- **1.** Pinch the clips on the battery to unlock.
- 2. Slide downwards to remove the battery from the device.

Pairing the Sled with a Mobile Computer

Pair the sled with a mobile computer by connecting directly with the communication port, scanning the barcode on the device, or by using the NFC feature on the RFD4031 to activate NFC Bluetooth pairing and facilitate Bluetooth communication between the sled and the mobile computer.

• To connect via scan, scan the code on the sled using the mobile computer to obtain the Bluetooth MAC address to pair the device to the sled.



Figure 5 Scan Bluetooth MAC Address

 To connect via NFC, align the NFC area behind the handle of the sled with the NFC area on the back of the mobile computer to pair.





Once the sled has paired with a mobile computer, the sled recognizes the device going forward and automatically connects using the 123RFID Mobile or 123RFID Desktop Reader Discovery feature.

Using the Rubber Locking Foot

The RFD4031 comes with a standard rubber foot on the bottom of the sled. An optional locking foot that is used in place of the standard locking foot and secures the battery of the sled is available as a purchasable accessory. For a full list of accessories that can be used with the RFD4031 RFID Premium sled, refer to the product specific Technical Accessory Guide available at: <u>zebra.com/support</u>.





Charging

Before using the RFD4031 for the first time, fully charge the battery by placing it in the charging cradle until the LED Power/Charging indicator turns solid green. The RFD40 RFID sled and mobile computer may be charged in the charging cradle individually or attached together.

When an RFD4031 RFID sled is removed from a charging cradle, it is automatically powered on. If a reader is not used for a duration of thirty minutes, the reader enters Off mode.



NOTE: The Charge Terminal parameter must be enabled to charge the mobile computer.



NOTE: A 12V power supply must be connected to the power jack when charging the sled using the cable cup accessory.



NOTE: The cradle does not charge the mobile computer if the battery is completely depleted or if it is not powered on.





Charging using the eConnex Interface

The mobile computer can be charged using the eConnex interface when connected to the sled. Before attempting to charge a mobile computer using the eConnex interface, verify that the mobile computer is compatible with pass-through charging by viewing the Technical Accessory Guide available at <u>zebra.com/</u> <u>support.</u>



NOTE: The cradle does not charge the device if the battery is completely depleted or if it is not powered on.



NOTE: The Charge Terminal parameter must be enabled to charge the mobile computer.



NOTE: A 12V power supply must be connected to the power jack when charging the sled using the cable cup accessory.

UI Indicators

The sled presents multiple forms of feedback to inform the user of various device states. The sled provides LED definitions for decode and battery status as well as beeper indications to indicate battery charge progress.

LED Definitions

The sled provides user feedback in the form of LED indications for decode, battery, Bluetooth, and Wi-Fi states.

Decode LED Definitions

The following table outlines the context in which decode LED feedback is provided and the indication that is presented for a given device state.



NOTE: The LED indicators on the sled differ from the LED indicators on the mobile computer being used with the sled.

Table 1 Decode LED Indicators

Condition	Indication
Barcode Decode	Solid Green
Scan Error	Solid Red for two seconds.
RFID Decode	Solid Green
RFID Error	Solid Red for two seconds.
Read Error	Solid Red

Battery LED Definitions

The following table outlines the context in which battery LED feedback is provided and the indication that is presented for a given device state.

Table 2 Battery LED Definitions While Charging

Conditions	Indications
Charging	Amber (Blinking)
Battery Level Over 50%	Solid Green
Battery Level Over 20%	Solid Amber
Battery Level Under 10%	Solid Red
Battery Level Under 5% (entering Low Power Mode)	No LED
Suspend/Low Power Mode	No LED
Fully Charged	Solid Green
Charging Error	Amber (Fast Blinking)

Bluetooth LED Definitions

The following table outlines the context in which Bluetooth LED feedback is provided and the indication that is presented for a given device state.

Table 3Bluetooth LED Definitions

Condition	Indication
Off	Off
On/Not Connected	Off
Discoverable	LED Blinking
Reconnect/Pairing in Process	LED Fast Blinking
Paired/Connected	Solid Blue
Out of Range	Off

Wi-Fi LED Definitions

The following table outlines the context in which Wi-Fi LED feedback is provided and the indication that is presented for a given device state.

Table 4 Wi-Fi LED Definitions

Condition	Indication
Connecting	Green (Blinking)
Connected	Green (Stays On)
Transmission Error/Out of Range	Red (Stays On)

Beeper Indications

The sled provides user feedback in the form of beeper tones for decode, battery, Bluetooth, and Wi-Fi states.

Decode Beeper Indications

The following table outlines the context in which beeper feedback is provided and the indication that is presented for a specific decode event

Table 5 Decode Beeper Indications

Condition	Tone
Good Barcode Decode	Short high beep
Decode Transmission Error	Four long low beeps
Good RFID Decode	Short medium tone
RFID Error	Four long low beeps
Error Message (Other)	No beep
Sled Memory Full (Batch Mode)	Long tones for 5 seconds

Battery Beeper Indications

The following table outlines the context in which decode LED feedback is provided and the indication that is presented for a given device state.

Table 6Battery Beeper Indications

Condition	Tone
Battery Level Over 50%	No beep
Battery Level Over 20%	No beep
Battery Level Under 10%	No beep
Battery Level Under 5% (entering Low Power Mode)	One beep
Suspend/Low Power Mode	Low/medium/high beeps
Fully Charged	One beep
Charging Error	Three beeps

Bluetooth Beeper Indications

The following table outlines the context in which beeper feedback is provided and the indication that is presented for a specific Bluetooth state.

Table 7 Bluetooth Beeper Indications

Condition	Tone
Off	No beep
On/Not Connected	No beep
Discoverable	No beep
Reconnect/Pairing in Process	No beep
Paired/Connected	Short Low/High beep

Wi-Fi Beeper Indications

The following table outlines the context in which beeper feedback is provided and the indication that is presented for specific Wi-Fi states.

Table 8Wi-Fi Beeper Indications

Condition	Tone
On/Not Connected	No beep
On/Pairing in Process	No beep
On/Connected	Short/Low/High beep
Out of Range	Short/High/Low beep
Pairing Error	No beep
Off	No beep

Trigger Mapping Modes

The following table outlines the supported modes that can be mapped to the upper or lower trigger of the RFID sled.

Access Trigger Mapping using 123RFID Mobile from the Settings menu. For additional information, visit <u>zebra.com/123rfid-mobile.html</u>.

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RFID	Sled scanner	•	RFID	v	RFID
Sled scanner					Sled scanner
Terminal scanner					Terminal scanner
Scan notification					Scan notification
No action					No action
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Table 9Mappable Trigger Modes

Condition	Description
RFID Start/Stop	Start and stop RFID decode operations.
Sled Scanner	Barcode decode from the sled.
Terminal Scanner	Barcode decode from the mobile computer. Feature support is determined by the mobile computer being used with the sled.
Scan Notification	Scan trigger press notification.
No Action	No action when the trigger is pressed.

Performing a Factory Default Reset on the Sled

The below function can be performed using a USB cable, cable cup or USB single slot cradles with a PC:

- 1. Disconnect and remove the battery and power sources from the sled.
- 2. Connect the sled to a power source using a USB cable, cable cup, or cradle. Observe the flashing battery LED.
- 3. Press and hold the upper trigger and immediately insert the battery into the device.
- **4.** Listen for the confirmation beep indicating that the factory default reset is about to begin and release the trigger.

The sled reboots with a factory reset default configuration.

Performing a Factory Reset By Scanning a Barcode

1. Pull the trigger to scan the Restore Defaults barcode:



2. Allow the sled to reboot.

The default factory settings are in place when the sled powers back on.

See Also

Factory Reset Saving an Online Configuration

Maintenance

This chapter provides suggested sled maintenance, troubleshooting, and technical specifications.



CAUTION: Always wear eye protection. Read warning label on compressed air and alcohol product before using. If you have to use any other solution for medical reasons please contact Zebra for more information.



WARNING: Avoid exposing this product to contact with hot oil or other flammable liquids. If such exposure occurs, unplug the device and clean the product immediately in accordance with these guidelines.



IMPORTANT: Use pre-moistened wipes and do not allow liquid cleaner to pool. Ensure the following items are addressed when using sodium hypochlorite (bleach) based cleaners:

- For device only. Do not use on cradle.
- Always follow the manufacturer's recommended instructions: use gloves during application and remove the residue afterwards with a damp cloth to avoid prolonged skin contact while handling the device.
- Due to the powerful oxidizing nature of sodium hypochlorite, the metal surfaces, including electrical contacts on the device, are prone to oxidation (corrosion) when exposed to this chemical in the liquid form (including wipes) and should be avoided. In the event that these type of disinfectants come in contact with metal on the device, prompt removal with a dampened cloth after the cleaning step is critical.



IMPORTANT: To avoid damage to the device, use only approved cleaning and disinfecting agents listed below. The use of non-approved cleaning or disinfecting agents may void the warranty.

Harmful Ingredients

The following chemicals are known to damage the plastics on Zebra devices and should not come in contact with the device:

- Acetone
- Ammonia solutions
- Aqueous or alcoholic alkaline solutions
- Aromatic and chlorinated hydrocarbons
- Benzene

- Carbolic acid
- Compounds of amines or ammonia
- Ethanolamine
- Ethers
- Ketones
- TB-lysoform
- Toluene
- Trichloroethylene.

Approved Cleaners

The following solutions are approved for cleaning the sled.

- Isopropyl alcohol 70% (including wipes)
- 10% Bleach (Sodium Hypochlorite 0.55%) and 90% Water solution
- 3% Hydrogen Peroxide and 97% Water solution
- Mild dish soap.

Cleaning the Sled

Routinely cleaning the exit window is required. A dirty window may affect scanning accuracy. Do not allow any abrasive material to touch the window.

To clean the device:

- 1. Dampen a soft cloth with one of the approved cleaning agents listed above or use pre-moistened wipes.
- **2.** Gently wipe all surfaces, including the front, back, sides, top and bottom. Never apply liquid directly to the device. Be careful not to let liquid pool around the device window, trigger, cable connector or any other area on the device.
- **3.** Be sure to clean the trigger and in between the trigger and the housing (use a cotton-tipped applicator to reach tight or inaccessible areas).
- 4. Do not spray water or other cleaning liquids directly into the exit window.
- **5.** Wipe the device exit window with a lens tissue or other material suitable for cleaning optical material such as eyeglasses.
- 6. Immediately dry the device window after cleaning with a soft non-abrasive cloth to prevent streaking.
- 7. Allow the unit to air dry before use.

- 8. Connectors:
 - Dip the cotton portion of a cotton-tipped applicator in isopropyl alcohol.
 - Rub the cotton portion of the cotton-tipped applicator back-and-forth across the connector on the Zebra sled at least 3 times. Do not leave any cotton residue on the connector.
 - Use the cotton-tipped applicator dipped in alcohol to remove any grease and dirt near the connector area.
 - Use a dry cotton tipped applicator and rub the cotton portion of the cotton-tipped applicator backand-forth across the connectors at least 3 times. Do not leave any cotton residue on the connectors.

Technical Specifications

The following table outlines the physical characteristics and user environment of the RFD4031 RFID Premium/Premium+ sled.

Item	Description
Physical Characteristics	·
Dimensions	Height: 15.6 cm (5.94 in.)
	Width: 8.4 cm (3.3 in.)
	Length: 16.6 cm (6.5 in.)
Weight	Premium: ~18.8 oz./~544 grams (sled with battery)
	Premium+: ~19.4 oz./~550 grams (sled with battery)
Power	PowerPrecision+ 7000 mAh Li-Ion battery
Frequency Range/RF Output	US: 902-928 MHz; 0 - 30 dBm (EIRP)
	EU: 865-868 MHz; 0 - 30 dBm (EIRP)
	Japan: 916-921 MHz (w LBT); 0 - 30 dBm (EIRP)
User Environment	
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Relative Humidity	Operating: 5 to 85% non-condensing
Sealing	IP54
Drop Specification	Multiple 5 ft./1.8 m drops onto concrete
Tumble Specification	500 1/2 meter tumble cycles (1000 drops) at 20°C
Electrostatic Discharge	± 15 kV air discharge
	± 8 kV direct discharge
	± 8 kV indirect discharge

 Table 10
 RFD4031 RFID Premium/Premium+ Technical Specifications

123RFID Desktop Application

123RFID Desktop is a setup and optimization tool for RFID sleds. This section describes the application and its features.

Application Features

- Connect allows users to search for readers on the local subnet, USB port, or Bluetooth.
- Read allows users to start an inventory, view summary metrics on tag reads, and sort, filter, and export tag data. Select an antenna and set the power level to begin building an inventory.
- Configure allows users to configure reader and scanner settings. Settings can be saved to a file or as a
 printed report.
- Firmware allows users to update the firmware on up to five devices.



NOTE: The Scan tab is available only for connected sleds that have an imager.

Connect

Users can locate readers on the local subnet or via USB port by clicking **Find Readers** or by entering the IP, hostname, COM port, or by Bluetooth and clicking **Connect**.

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To discover readers on the network, view the **Available Readers** section of the application and click **Connect** on one of the associated rows to connect to the specified reader.

123RFID Desktop Application

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Read

The read feature allows users to start an inventory. Users can view summary metrics on tag reads by the reader, sort, filter, and export tag data to a file. Select the antenna and set the power level to start an inventory.

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Click Start to start reading tags and recording an inventory.

To download the inventory data for offline viewing, click **Export** to export tag data to Excel.

- Export Summary save a snapshot of all the tag reads displayed on the Read screen in Excel.
- Export History save timeline data for tags read in Excel.

Offline Reader Configuration

The Reader Configuration wizard configures the reader and antenna settings and saves them instantly. Users can also save settings to a file on the PC or print a report.

Click Edit Configuration on Reader to edit the reader's settings and use the wizard to do the following.

- Assign names to the reader and the connected antennas.
- Set reader settings or reset them to factory defaults.
- · Change the reader's region configuration.
- Create rules for your GPIO (General Purpose Input/Output) accessories on when to trigger inventory and output results.
- Save/print configurations to a file.
- Deploy the configuration file to a new device.

Click Open Configuration to load a saved configuration file to another connected reader from the PC.



Beeper volume, dynamic power, off mode timeout duration, and Bluetooth discovery settings are configurable for online readers.

Reader Name

Add a description or name the reader by filling out the form fields on the name screen.

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V	NAME NOTES				
Firmware	GENERAL				
	RRD				
	LOAD AND PRINT				
About					

Parameter Settings

General Settings that are configurable include enabling Bluetooth Batch Mode, setting a delay before data is transmitted in Batch Mode, setting the Bluetooth Host Type, and setting the USB Host Type.

HID Keyboard Options include selecting the country code and keystroke delay. Bluetooth settings include enabling the device to attempt to reconnect automatically upon losing connection, beeper feedback when the device reconnects, setting a timeout period for the device to become discoverable, and automatically attempting to reconnect to the Bluetooth host. Beeper Settings include volume, tone, whether the sled beeps to confirm a successful decode, and the ability to suppress power-up beeps.

纯 1:	23RFID Des	ktop	(O) 0 Readers Connected. 📑 How to V	- • X
((Q)) Connect	C BACK	GENERAL		
n)) 🖻		The parameters below are for Click on blue links below for fa	configuring "General" settings. ster parameter list navigation.	
Read	PREMUM	General settings HID Keyboard Options	General settings Burtooth Batch Mode	Auto Batch Mode •
Configure		Beeper Blurtooth	Delay before data transmission in batch mode Blastooth Host Syse	0 x05 g
Firmware	GENERAL NID		US8 Host Type	(coc •)
	LOAD AND PRINT		HID Keyboard Options	
			US8 HID Keyboard Country Code	North American *
			US8 HID Keyboard Keystroke Delay	No Delay *
About			Bluetooth HID Keyboard Country Code	North American *

RFID Configuration (Online)

Configurable options for offline readers include regulatory configuration, RFID data reporting, filter and querying options, trigger, and advanced options.

When connected via IP, Edit the configuration of the reader or load a saved configuration onto the device.

12	3RFID Des	sktop	IS V II V Inthial sector ((g) I finder Constant	· The Article	O ne un Catpone
	SRFID Des	Sktop What do you want to do? Here end an after the base is settine Cell Configuration on Second Load a "Saved Config / Ber to Reador		(1) i Santori Carneshel		ma un Contarior
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NOTE: Ensure that the reader is configured for the correct region it is used in. Configuring the device for a different region is illegal.

Online Configurable options include

- General Settings
- Regulatory Configuration options such as setting the country of operation and enabling or disabling Channel Hooping and Channel Mask.
- Antenna
- Trigger Configuration such as defining RFID operations and the conditions in which they are initiated and stopped.
- Pre-Filtering
- Advanced
- Scanner Configuration

- (1.	23RFID Des	sktop	S C B C Inthing waters ((g) i fraderi Corrected	📑 Here is Villeon	O The will Configuration
	23RFID Des (MOX)))))))))))))	School	C V SI V Inthing output ((g) i finados Connected		or (g) (g)
1		790Y MC17				

RFID Configuration (Offline)

Configurable options for offline readers include regulatory configuration, RFID data reporting, filter and querying options, trigger, and advanced options.



NOTE: Ensure that the reader is configured for the correct region it is used in. Configuring the device for a different region is illegal.

Offline Configurable options include:

- Regulatory Configuration options such as setting the country of operation and enabling or disabling Channel Hooping and Channel Mask.
- RFID Data Reporting options such as first and last time seen time stamps, RSSI, phase difference, unique tag reporting, and the total amount of tags seen.

- Advanced Configuration options such as enabling Link Profile, configuring the RFID Transmit Power Level, and enabling dynamic power optimization.
- Filter Options for up to four filters, including Filter enable, target, action, memory bank, truncate, length, start position, and mask.
- Query Options such as selecting which tags, session, and target the query is applied to.
- Trigger Configuration such as defining RFID operations and the conditions in which they are initiated and stopped.

(ئ. 1	23RFID Desl	ktop	(0) 0 Readers Connected.	How to Videos	Help with Configuration
((Q)) Connect	← BACK	Please be sure to give y	OTES	You can also add notes.	
Read	PREMIUM	Configuration Name:	Factory Default 16 character limit		
Configure		Notes:			
Firmware	NAME NOTES GENERAL				
	RFID LOAD AND PRINT				
About					

(徳. 1)	23RFID Desl	ktop	(O) 0 Readers Connected. 📑 Ho	= to Videos 🕕 Help with Configura	aton
((Q)) Connect	← BACK	RFID	La attinua		
9)) Read	PEMLM	Click on blue links below for fa	Regulatory Configuration		Ă
¢.		RFID Data Reporting Advanced Configuration	Country of Operation Enable channel hopping	NO REGION SELUNY	
Firmware	NAME NOTES GENERAL	Filter Options Query Options Trigger Configuration	Enabled Channels Mask		
	REID: LOAD AND PRINT		RFID Data Reporting	feeble .	
			Last seen time-stamp	Disable *	
About			Protocol Control field Received Signal Strength Indicator (RSSI)	Disable •	

Scanning Configuration

Configurable scanning settings include enabling or disabling specific symbologies and enabling/disabling particular settings at the system level, such as transmitting the no-read message or the device's trigger mode.



NOTE: Scanning configuration is available on RFD4031 Premium+ UHF RFID sleds only.

- Symbology Settings users can configure and enable/disable specific symbologies.
- System Settings users can configure and enable/disable specific settings at the system level, such as transmitting the no-read message or the device's trigger mode.

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- K	Lonin ID Desk	liop	(Q) o Headers Connected.	ew to videos 😗 Help with Configu	ration
<u>((Q))</u>	← BACK	SCAN			
Connect	T	The parameters below are scan Click on blue links below for fas	ner settings to configure symbology and ger ter parameter list navigation.	eral system settings.	
Read	PREMUM-PLUS	Symbology Settings	System Settings		*
1 🔯		System Settings	Transmit No Read Message		
Configure			Parameter Scanning Allowed	8	
₩	NAME NOTES		Keyboard Country Type	North American *	
Firmware	RFD		Country Code Page	Default for a set Country Type	•
	GENERAL		Timeout Between Same Symbols	5 x	100ms ^E
	LOAD AND PRINT		Timeout Between Different Symbols	1 ×	100ms
			Scan Line Width	Wide *	
			Laser On Time	99 ×	100ms
About			Terres Code M		-

Configuration Creation

The 123RFID Desktop application allows users to create, save, and deploy configurations.

To create a new configuration file:

- **1.** Launch the 123RFID Desktop application and open the **Configuration** tab.
- 2. Select Offline configuration.
- 3. Select the reader for the new configuration to be deployed on
- 4. Add Configuration Name & Notes for the new configuration file & Giga-DAT File.
- 5. Select the proper region information for the regulatory section.
- 6. For RFD40 Premium+ and RFD90 devices only, configure the scanning parameters from the **Symbology** and **System** settings.
- 7. Configure the settings on the General panel.
- 8. Save the configuration file locally on the PC by clicking Save Configuration.
- To create a Giga-DAT package, begin by following steps 1-8 from the procedure below.
- **1.** Select **Offline** configuration for RFD90.
- **2.** Create a Name and Notes for the Giga-Dat file.
- **3.** Choose the appropriate regulatory settings for the country of operation for device configuration.

4. Configure settings for the RD90, including Scanner Symbologies, RFID power levels, and RFID singulation.

. 1:	23RFID Deskt	top	(0) 0 Readers Connected.	How to Videos	Help with Offine Config	
€ 12 (©) Connect)) Read Configure Firmware	23RFID Desk EBACK EFD90 NAME NOTES RFD SCAN GENERAL MCOBY DATA LOAD AND PRINT:	LOAD AND PRINT Choose from the options below to program your device Save configuration Create Cliga-DAT package Email configuration file Print/export summary report Print/export barcode report	() Readers Connected.	How to Videos	Reip with Offline Config	
About						

- 5. Select Load and Print.
- 6. Select Create Giga DAT package.
- 7. Observe the Staged Configuration dialog box and select the firmware file.
- 8. Navigate to the appropriate configuration file and click **Open**. The firmware file name displays in the **Staged Configuration** window.
- 9. Click Save to save the Giga DAT file.

The Stage Configuration window updates to indicate that the new Giga-DAT File is successfully saved.

Stage Configuration	X
RFD90-COMMON-MODEL	
FC-DAT file saved successfully.	
Firmware file:	
C:\Users\AS7235\Downloads\SAAFKS00-002-R04E0.DAT	
Select firmware file	
	Save Close

To load a Giga-DAT package:

- **1.** Connect to a RFD90 sled.
- 2. Click the **Configure** tab.
- 3. Select Load a Saved Config File to Reader.
- **4.** Select the appropriate Giga-Dat file to load onto the device.
- 5. Select the RFD90 from Available readers.
- 6. Select Load Configuration to readers.

Print Configuration

Load the configuration file to the PC, push the antenna settings to the reader, or reset the antenna settings to factory defaults at the end of the configuration workflow.

穗 1	23RFID Desk	top	(O) 0 Readers Connected.	K How to Videos	- 🗆 X
<u>((Q))</u>	← BACK	LOAD AND PRINT			
n)) 🖃		Choose from the options below to program your device			
Read	RFD90	Save configuration			
1		Create Giga-DAT package			
Configure		Email configuration file			
₩	NAME NOTES	Print/export summary report			
Firmware	RFID	Printlexport barcode report			
	SCAN				
	MODIFY DATA				
	LOAD AND PRINT				
About					

Firmware Management

To update reader firmware on up to five devices simultaneously, select the devices on the table by clicking the associated checkbox and clicking **Update Firmware**.

🐞 123RF	ID Desktop									(0) 5 Readers Connected	How to Videos	- C (
((Q)) Upo Connect Availat	late Reader F	irmware								 0 de	vices selected for update	🗴 UPDATE FIRMWARE
n) 🖻 🗖	Reader Name	Model	IP/COM Port	Reader ID	Firmware	Serial Number	Mig. Date	Locale	Update Status			
Read	RFD90+_220525201D0036 COM14	RFD9031-G30G700-US	COM14	220525201D0036	PAAFK500-004-R04	220525201D0036	21Feb22	USA				
- Mar 1	US8 Serial Device (COM57) COM57	RFD9031-G30G700-US	COM57	22322520101351	PAAFKS00-004-R04	22322520101351	18Nov22	USA				
Scan	Bobs-E-8-E50 Sled COM4	RFD4031-G108700-E8	COM4	211555201D0064	PAAFKS00-004-R04	211555201D0064	04Jun21	ETSI				
n 0	US8 Serial Device (COM18) COM18	RFD4031-G108700-US	COM18	22055520100815	PAAFKS00-003-R03	22055520100815	24Feb22	USA				
Configure	US8 Serial Device (COM21) COM21	RFD9091-G30G700-US	COM21	220115201D0061	PAAFK500-003-R03	220115201D0061	11Jan22	USA				
Abot												

Next, the **Update Reader Firmware** window displays. Click **Browse** to select the firmware version to enable on the device.

123RFID Desktop Application

. (1)	23RFI	ID Desktop											(o) 5 Readers Con	vected 📑 How to Videos	- D X
((Q)) Connect	Upd	ate Reader F	irmware											5 devices selected for upda	UPDATE FIRMWARE
n) (The second sec		Reader Name	Model	IP/COM Port	Reader ID	Firmware	Serial Number	Mfg. Date	Locale	Update State	n				
Read	×	RFD90+_220525201D0036	RFD9031-G30G700-US	COM14	220525201D0036	PAAFK500-004-R04	220525201D0036	21Feb22	USA	Queued					
	×	US8 Serial Device (COM57) COM57	RFD9031-G30G700-US	COM57	22322520101351	PAAFK500-004-R04	22322520101351	18Nov22	USA	Queued					
Scan	×	Bobs-E-8-E50 Sled	RFD4031-G108700-E8	COM4	211555201D0064	PAAFK500-004-R04	211555201D0064	04Jun21	ETSI	Queued					
~	×	US8 Serial Device (COM18)	RFD4031-G108700-US	COM18	22055520100815	PAAFK500-003-R03	22055520100815	24Feb22	USA	Queued					
Configure	×	US8 Serial Device (COM21)	RFD9091-G30G700-US	COM21	220115201D0061	PAAFK500-003-R03	220115201D0061	11Jan22	USA	Queued					
াজ		COM21													
Firmware			Select Firm	ware File							-			×	
	1		← → +	↑ 📑 > This	PC > Documents	> Old Laptop > RFD40	0-90 → wave-2-inte	mal-Engineeri	ing⇒ne	ew.			v 0 /	Search new	
			Organize •	New folder										III • 🔟 🛛	
			📌 Quick a	ccess	Nam	*		Status	Date mo	odified	Type	Size			
			 OneDriv 	e		CAAFKS00-004-R04E0.DAT		0	1/26/200	23 3:34 PM	DAT File	3,823 KB			
			 OneDriv 	e - Zebra Techn	ologies	AAFKS00-004-R04E0.DAT AAFKS00-004-R04E0.DAT		0	1/26/200	23 3:34 PM 23 3:34 PM	DAT File	3,680 KB 11,012 KB			
			This PC	jects											
			Deskto	P	_										
			Downl	oads											
			Music	rs											
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				D		80.070 D 17								CLOSED DATA	
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12	3RFID D	Desktop				ا صار :	9				((Q)) 1 Read	ter Connected 🛛 📑 How to Videos	X		
((Q))	Update	Reader Firmwar	e									1 device selected for up	date 👱 uspate firmware		
Comment	Available Read	ers (1)													
1)))	Read 10.23	der Name Model IP/COM Port I34543 EXERCI-5 10 233 48 43	Reader ID Firmware	Serial	Number Mfg. Date	Locale Update Status									
*	10.23	34543													
Configure															
1															
Firmware					Update Firmuste			3	8						
					Reader firmware	e update									
					Enter the path of t	the firmware version you would	live install on the selecte	ed device.							
					Path http://10.1 User Name User	17.133.108.8003/FXR90_0.4.133 Name Possword P	tar.bz2								
					Search the 123R	FID Decktop support site for no	w firmware versions.								
							CANCEL	CONTINUE							
About															

Once the firmware file is selected, the update starts and the progress bars next to the associated readers indicate the completion percentage of the update.

23RF	D Desktop									(()) 1 Reader Connected	How to Videos	Help with Firmware Update
Upd Available	ate Reader Fi Readers (1)	irmware								0/1 devic	es updated successful	y 👱 update firmware
	Reader Name	Model	IP/COM Port	Reader ID	Firmware	Serial Number	Mfg. Date	Locale	Update Status			
	BT-HID-Mode-United-States COM17	RFD9031-G30G700-US	COM17	220525201D0036	PAAFKS00-003-R03	220525201D0036	21Feb22	USA	Updating (53%)			

Bluetooth Settings

123RFID Desktop tool can discover, connect, and configure Bluetooth settings for online and offline readers. This section provides information about Bluetooth configuration changes for online and offline readers, including enabling and disabling discovery and configuring the discovery timeout.

There are three modes of Bluetooth discovery:

- **1.** Always discoverable: Enabling Bluetooth discovery and setting the discoverable timeout value to 0 changes the Bluetooth to always be discoverable and always available for pairing.
- **2.** Never discoverable: Disabling Bluetooth discovery changes the Bluetooth to never be discovered, and the device is unavailable for pairing.
- **3.** Limited discovery or Time Out: Enabling Bluetooth discovery and providing the Discoverable timeout value makes the device pairable for the specified time.

To configure online Bluetooth settings:

- 徳. 12	23RFID Des	sktop		(() 1 Reader Connected	How to Videos	() H
((0))	← BACK	General				U Help
Connect		Set Bluetooth and other general setti	ngs.			
n))@	1 PP	General Setting				
Read	USB Serial Device	RFID Beeper Volume	High beep Medium beep Low beep Quite beep			
- 686	(COM123)1	Dynamic Power	Enable ① Disable			
Scan	Name	Unique Tags	Report Unique Tags			
. 🔶 🗌	General	Off mode timeout	1800 x1s			
Configure	Region Antenna	USB Host Mode switch	SSI over CDC v Switch			
*	Trigger	BT Host Mode switch	SPP and MI Combo 👻 Switch			
Firmware	Pre-Filter	Same Tag Reporting timeout In HID Mode	21 xts			
	Advanced		1170			
	Modify Data	BT Batch mode	AUTO			
	Scanner Config	USB Batch mode	DISABLE ~			
	Save Config	eConnex Terminal Charge	ENABLE v			
		Key Remapping	Upper Trigger Lower Trigger RFID V Sted Scanner V			
		IOS HID Virtual Keyboard	DISABLE *			
		Bluetooth Settings				
		Bluetooth discovery	ENAOLE v			
		Discoverable timeout	40 xts			
		Reconnect Attempts	6 attempts			
		Beep on Reconnect	DISABLE BEEP *			
About		PREV NEXT				

- 1. Launch 123RFID Desktop
- 2. Click Find Readers. Readers that are available to connect are listed under the Available Readers section.
- **3.** Click **Connect** next to the reader you intend to connect with. Once connected, the reader moves and is listed under Connected Readers.
- 4. Click **Configure**, select the reader, then Edit the configuration on the reader, followed by General.
- **5.** Change the **Bluetooth Discovery** and **Discoverable** timeout values to the desired time range. These updated settings are directly applied to the readers.

To configure offline Bluetooth settings:

- **1.** Launch 123RFID Desktop
- 2. On the Configure tab, click Offline Configuration and select Bluetooth as the Plugin Type.
- **3.** Configure the Bluetooth settings and save the configuration in either .rfdcfg or .DAT format.

0. 12	23RFID Deskt	ор			((•) 0 Readers Connected.	How to Videos	i Help
((Q)) Connect	← BACK	GENERAL	configuring "General" settings.				
n)) Read	PREMIUM-PLUS	Click on blue links below for fat General Settings HID Keyboard Options	ster parameter list navigation. General Settings Bluetooth Batch Mode	Auto Batch Mode •			
Configure Firmware	NAME NOTES RFID	Bluetooth Beeper Settings	USB Batch Mode Delay before data transmission in batch mode BluetoothHost Type	Disable 20 x 0.5 sec Serial Port Profile and Mfi Combo			
	GENERAL MODIFY DATA LOAD AND PRINT		USB Host Type Same Tag Reporting timeout In HID Mode Key Remapping	CDC 21 x1s Upper trigger -RFID, Lower trigger -Sted scan			
			eConnex Terminal Charge HID Virtual Keyboard for Apple iOS Off mode timeout	DISABLE •			
			HID Keyboard Options				
About			USB HID Keyboard Country Code USB HID Keyboard Keystroke Delay Bluetooth HID Keyboard Country Code	North American • No Delay • North American •			

To connect the reader and load the configuration file:

- 1. Select the reader on the **Configure** tab and click **Load a Saved config file to the reader**.
- **2.** Browse to the saved configuration file. The load configuration window displays.
- 3. Click Load Configuration to Readers.

徳 1:	23RFID Desl	ktop	(O) 0 Readers Connected.	How to Videos	Help with Off
((Q)) Connect	← BACK	Configure Device Offline			Open co
Read Configure	T.	<image/>			
About					

123RFID Desktop Application

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12 Que and And Market Start	CORFID Des	What do you want to do? Prese select an action hore believe to continue. Exerc Contingent action action to the continue. Load & "Select Conting" File to Resuder		(g) i Reades Connected		0
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								± 10	AD CONFIGURATIO
onfig	uration file : C:\Users\h	c4678/Desktop/wifl/Fact	ory DefaultRFD40	0_05_16_22_05_52_0	2_563.rldclg				
allable	Readers (1)								1 device :
	Reader Name	Model	IP	Reader ID	Firmware	Serial Number	Mfg. Date	Locale	Update Status
1	IP 192.168.0.100:5086 192.168.0.100	RFD4031-G108700-JP	192,168.0.100	212735201D0084	PAAFKS00-003-N05	212735201D0084	305ep21	JPN_L	
_									

Connecting to the Multi-Slot Cradle

The 123RFID Desktop tool can also be used to discover, connect, and perform RFID and scanning operations for Zebra UHF RFID sleds using the multi-slot cradle. This section provides the steps necessary to discover and connect to the multi-slot cradle.

To discover and connect to the device:

1. Keep the device in the cradle and run 123RFID Desktop.

2. Click Find Readers to view available devices to connect to.

	3RFID Desktop
_	
2	Welcome
nect	Find Network and USB Readers
2	Click to find reader(s) on local subnet or USB port.
ead	FIND READERS
.	Connect a Reader by IP or Hostname or COM port
P	Enter reader's IP address or hostname or COM port below.
gure	Fixed readers Enter IP or hostname
-	CONNECT
vare	Connect to a Recently Used Reader
	RFD40P_212735201D0108 COM40
	USB Serial Device (COM67) COM67
	10.45.203.57 10.45.203.93
	10.45.203.60 10.45.203.60
	CONNECT

3. Click the **Connect** next to the device to connect to it. Once connected, the device is listed under the **Connected Readers** section

123RFID Desktop Application

Rea	der Discov	erv										
Connect		Cry										
Conneco	DISCONNECT ALL	Reader Nat		Andel	IP/COM Port	Reader ID	Firmware	Serial Number	Min. Date	Antennas	Country Code	
	DISCONNECT	₹ IP 10.4	15.203.77:5086 R	FD4031-G008700-US	10.45.203.77	212735201D010E	PAAFKS00-004-R04	212735201D0108	305ep21	•	USA	
	DISCONNECT	RFD40	-2203532010081516cm	ED4031-G108700-E8	10.45 203.84	21155520100064	PAAFKS00-004-P04	211555201D0064	04Jun21		ETSI	
	· · · · · · · · · · · · · · · · · · ·	• • RFD40	0-211555201D0064.local.									
Available	Readers (14)		Reader Name +	Model		IP/COM Port	firmware	Serial	Number	Mfg. Date		
Available	PING C	CONNECT	Reader Name + Transformer Parts 10,7500 RFID Rea	Model Ser EX7500-4		IP/COM Port 10.45.203.94	Firmware 321.21	Serial 173230	Number 010501565	Mfg. Date 2017-11-19		
Available	PING C	CONNECT	Reader Name A	Model EX7500-4		IP/COM Port 10.45.203.94	Firmware 32121	Serial 173230	Number 010501565	Mfg. Date 2017-11-19 2017-10-26		
Available	PING C	CONNECT	Reader Name ▲ PX0500F1718 FX7500 RFID Rea	Model der FX7500-4 der FX9600-8 cmmarks cmmarks		IP/COM Port 10.45.203.94 10.45.203.72	Firmware 32121 32123	Serial 173230 172990	Number 010501565 010504038	Mfg. Date 2017-11-19 2017-10-26		
Available	PING C	CONNECT CONNECT	Reader Name ^ FX7500EFTR3 FX7500 RFID Res FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3 FX7500EFTR3	Model Fr FX300-4 FX3600-8 FX3600-8		IP/COM Port 10.45.203.94 10.45.203.72 10.45.203.93	Firmware 32121 32123 32123	Serial 173230 172990 190940	Number 010501565 010504038 010506807	Mfg. Date 2017-11-19 2017-10-26 2019-04-04		
Available	Ping c Ping c Ping c Ping c	CONNECT CONNECT CONNECT	Reader Name A PC/SOUTUPID IC/SOU B/ID Rea PC/SOUTUPID PC/SOUTUP PC/SOUTUPID PC/SOUTUPID PC/SOUTUPID PC/SOUTUPID PC	Model Ber FX7500-4 Ber FX9600-8 FX9600-8 FX9600-8 7 ATR7000-480		IP/COM Port 10.45.203.94 10.45.203.72 10.45.203.93 10.45.203.241	Firmware 32121 32123 32123 32121 21629	Serial 173230 172990 190940 190270	Number 210501565 210504038 210506807 210503649	Mfg. Date 2017-11-19 2017-10-26 2019-04-04 2019-01-27		
Available	Readers (14) PING C PING C PING C PING C PING C	CONNECT CONNECT CONNECT CONNECT	Reader Name A PC/S00001710 InC/S00 BFID Read PC/S00001828 F09000 BFID Read PC/S00001828 F09000 BFID Read PC/S00019924 F09000 BFID Read # ATROX0030161 ATR SFID Read # ATROX00315116 ATR SFID Read	Мофеl Fr7 5x7300-4 Fx7960-8 Fx3960-8 Fx3960-8 ATR7000-480 Fx79600-480		IP/COM Port 10.45.203.94 10.45.203.72 10.45.203.23 10.45.203.241 10.45.203.242	Firmware 32121 32123 32123 32121 21629 32124	Serial 173230 172590 190944 190270 -	Number 210501565 210504038 210506807 210503649	Mfg. Date 2017-11-19 2017-10-26 2019-04-04 2019-01-27 -		
Available	Readers (14)	CONNECT CONNECT CONNECT CONNECT CONNECT	Reder Name ^ PCISOD(ETRI) 50/300 BFID Res PCISOD(ETRI) 50/300 BFID Res PSIGOD(ETRI) 50/300 BFID Res PSIGOD(ETRI) 50/300 PSIGOD(ETRI) 50/300 PSIGOD(ETR	Мобеl 547 Кл300-4 547 Кл300-8 Кл3600-8 Кл3600-8 АЛКЛ000-480 Кл3600-8		IP/COM Port 10.45.203.94 10.45.203.93 10.45.203.93 10.45.203.241 10.45.203.242 10.45.203.24	Firmware 32121 32123 32121 32121 32123 32124 32124 32124	Serial 173234 172994 190944 190270 - 202694	Number 210501565 210504038 210506807 210503649 210554785	Mfg. Date 2017-11-19 2019-04-04 2019-01-27 - 2020-09-25		
Available	Readers (14) PING C	CONNECT	Reder Name ^ PC/SOOFERS NOTAD FID Read PC/SOOFERS PC/SOOFERS PC/SOOFERS PC/SOO FID Read PC/SOOFERS PC/SOO FID Read PC/SOOFERS PC	Мофеl К7300-4 К7300-4 К7300-8 Гл3600-8 Гл3600-8 АЛК7000-480 Кл3600-8 Кл3600-8 Кл3600-8 Кл3600-8		P/COM Port 10.45.203.94 10.45.203.93 10.45.203.24 10.45.203.241 10.45.203.24 10.45.203.24 10.45.203.24	Firmware 32121 32123 32124 32124 32124 32124 32123	Serial 173230 172990 190040 190220	Number 210501565 210504038 210506807 210506807 210554785 210554785	Mfg. Date 2017-11-19 2019-04-04 2019-04-04 2019-01-27 - 2020-09-25 2017-04-05		
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To connect to a device via IP address:

1. Keep the sled docked in the cradle for up to two minutes while the DHCP allocates the IP address.

2. Choose any of the discovered sleds from the available readers and click Connect

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Reade	er Discovery								
-	Reader	Name Mode	4 9703	M Port Reader ID	Firmeare Serial N	kumber Milg, Dute	Antonia	Country Code	
				1. CHO FIND READERS 2. CHO CONNECT	betre to docaver readers.				
Available Re	nadors (15)				Proven	- to be a few	10.00		
Available Re	maders (15)	Rauler Name	Mudel Friedd-4	IFSEDM Part =	Female 1212	Sorial Number	Mig. Date 2017-02-10		
Available Re	Press	Reader Name 70500013611 Andero Mrd. Anader 50500010615 A01300 Mrd. Anader \$2 (A730000015 A01300 Mrd. Anader	Model 10960-8	IESCOM Paul = HURSDELM HURSDELM	Permare 12121	Social Number Trainfordioucto Tronscondectuar	Mig. Dute 2017-12-10 2017-04-05		
Available Re	radors (15) Ptva Coleman Ptva Coleman Ptva Coleman	Reader Name Image: Control (Control (Contro) (Contro) (Control (Control (Contro) (Contro) (Contro) (Contro	Mudd 10660-8 10750-4 10750-4	IFSCOM Purt = HERCOMENH HERCOMENH HERCOMENH	Pressure 32129 32129 32129	Social Number 1734401000400 17085010502847	Mig. Dute 3017-12-10 3017-04-05		
Available Re	PTVG COMMENT PTVG COMMENT PTVG COMMENT PTVG COMMENT PTVG COMMENT	Reador Name Image: Control of the Con	Model 10800-8 10730-8 10730-8 10730-8	PSON Not + Installar Installar Installar Installar	Freeser 3203 32109 32109 32109	Sorial Number 1794401050400 17095010500587 1719400105005879	Mig. Dute 2011-02-10 2017-04-05 - -		
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	radons (15) Prid Conelici Prid Conelici Prid Conelici Prid Conelici Prid Conelici Prid Conelici	Reader Name Improcesses Imp	Model 10800-8 10700-8 10700-8 10900-8 10900-8 10900-8	9500 Par - Recalar Recalar Recalar Recalar Recalar	Femare 12125 12125 12125 12125 12125 12125 12125 12125	Sorial Number 17544010504009 11065010500507 11560010500500 1160010100050409 116040100008010	Mig. Dave 2017-0-05		
	readons (15) Priticia Pr	Reader Name Imposorbial 1 Annota 100 MIC Analysis	Model 10800-8 10700-8 10700-8 10900-8 10900-9 10900-9 10900-9 10900-9	9500 Per * 16.0360 16.0360 16.0360 16.0360 16.0360 16.0360 10.03600 10.03600 10.03600 10.036000 10.0360000000000000000000000000000000000	Femare 12123 12123 12123 12123 12123 12125 12125 12125 12125	Sorial Number 1754401050400 17065010500847 17540010500840 1905401050840 1905401050840	Mig. Dure 2011-02-10 2013-04-05 - 2019-04-05 2019-04-04		
	readons (15) PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT PRO COMMICT	Rosker Name Imposorbial 1.00000 MIC feasion (noncostal) Imposorbial 1.00000 MIC feasion (noncostal) Imposorbial 1.0000 MIC feasion (noncostal) <t< td=""><td>Model Resel R</td><td>9509 Per = 160,364 160,364 160,364 160,364 160,364 100,364 100,365 100,355 100</td><td>Frances 12123 12123 12123 12123 12125 12125 12125 12125 12125</td><td>Sorial Number 17544010504009 1709501050347 1754001050340 1955401050840 1955401050840</td><td>Mig. Gute 2011-52-10 2011-62-05 2011-62-06 2019-67-27 2019-66-64</td><td></td><td></td></t<>	Model Resel R	9509 Per = 160,364 160,364 160,364 160,364 160,364 100,364 100,365 100,355 100	Frances 12123 12123 12123 12123 12125 12125 12125 12125 12125	Sorial Number 17544010504009 1709501050347 1754001050340 1955401050840 1955401050840	Mig. Gute 2011-52-10 2011-62-05 2011-62-06 2019-67-27 2019-66-64		
	radors (15) PRO COMMON PRO COMMON	Randor Name Imposorbial Information Informatio Information Information Information Information Informat	Model P0800-8 P0700-4 P0700-4 P0700-4 P0700-4 P0700-40 P0700-	9509 Part = 16.03640 16.03640 16.03640 16.03640 16.03640 16.03640 16.03650 16.03650 16.03650	Roman 12123 12123 12123 12123 12125 12125 12125 12125	Sorial Humbor 17544010504009 1709501050547 1754001050540 1905401050840 1905401050840	Mg Dav 2015-0-10 2015-0-00 2015-0-06 2019-0-27 2019-0-64		

3. If the connection was successful, the reader is now listed in the Connected Readers section.

Rea	der Discov	very								
Connecte	ed Readers									
	DISCOMNECT ALL	Reader Name	Mudel	IP/COM Part Reader	0 Firmant	Serial Number	Mig. Date	Antonias	Country Code	
0	DISCONNECT	A # 1045.301715086 84540-2005000708815.8xx8.	W0401-088700-US	HEAR 200.77 212735	PIDERE INARGOD-004-	64 2127553F06108	305ep21	•	V54	
	DISCONNECT	A #10452034508	N/DeDIT-CTORTOD-68	NA1-2012	DIDOBER REARGOD-DOA-R	KM 211505201D0064	06un21		179	
Available	e Readers (14)	Radio Name *	Weddi C RAD Reader	8708	Part Finance	Sector	Number	Mig. Duty		
Available	Preaders (14)	Reader Name + COMMENT	Windowi 0.92/2 Resolar 0.92/2 Resolar	1900 16452	Part Frances	5000 (722)	Number	Mig. Dute 2017-11-13		
Auglistie	Pino		Winded 0.97/C Reader 92/500-4 0.97/C Reader X3900-8	1950 1940 1940	Part Firman 194 12121 179 12123	5014 17525 17289	Number (1950-1965 (1950-1968	Mig. Dute 2015-10-19 2015-0-26		
Auplate	Preders (14) Pred Pred Pred Pred Pred Pred Pred Pred	Finador Name * COMMENT At 1073000000 00000000 COMMENT At 10000000000 000000000 COMMENT At 1000000000000000000000000000000000000	Windowi 0.97/C Reader 92/200-4 0.97/C Reader 92/90/-8 0.99/C Reader 92/90/-8	1959 1963 1963 1963	Pert Fremerer 554 32121 577 32123 580 32121	5000 17525 17599	Number 012501365 012504036 010506807	Mija, Duke 2015-10-19 2015-10-26 2019-04-04		
Auglight	Preders (14) Pred Pred Pred Pred Pred Pred Pred Pred	Reader Name • COMMENT	Washed 0.41/C Reader 50/200-4 0.41/C Reader 50/900-8 0.41/C Reader 50/900-8 0.10 Reader 4/30/080-480	8000 664 664 665 665 665 665	Period Perioder DM 32121 D22 32128 D33 32121 D24 32128	Secial 17323 17394 19394 19394	Number Intsortes Intsolatol Intsolatol Intsolatol	Mig. Dete 2015-15-19 2015-10-26 2019-06-04 2019-06-04		
Auglight	Readers (14) Prec Prec Prec Prec Prec	Reader Name • COMMENT ** 10120001101 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 10120001001 1012000010001 1012000010001 1012000010001 1012000001001 10120000000000 10120000000000	Woodsil 0.0100 Reader 502500-4 0.0100 Reader 50960-8 0.0100 Acader A20202-800 MIC Reader A20202-800	9504 9663 9663 9663 9663 9663	Part Passace BM 32121 572 32128 572 32128 574 32128 574 32128	Serial 17323 17394 19394 19394	Number PISIONS PISIONS PISIONS PISIONS PISIONS PISIONS	Mg. 0we 2015-15-19 2015-56-26 2019-06-04 2019-07 -		
Auplishe	Preaders (14) Prec Prec Prec Prec Prec Prec Prec Prec	Reader Name • COMMENT ** Inclusion (**) Inclusion (**)	Woold 0.020 Reader 50250-4 0.020 Reader 50960-8 0.0300 A 6 0.04 Reader A10/020-480 DFG Reader A20/020-480 DFG Reader A20/020-480	9508 663 663 865 865 865 865	Part Possaer 194 32121 572 32128 587 32128 588 32128 584 32128 584 32128	5044 17325 17399 19394 19627 - -	Number entreses entreses entreses entreses entreses	Mg. ber 2015-10-19 2015-0-26 2019-0-26 2019-0-25		
Augistic	Readers (14) PNO PNO PNO PNO PNO PNO PNO PNO PNO PN	Reader Name • COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** #FC/S2000/FD/S FC/S2000/FD/S COMMENT ** #FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S COMMENT ** FC/S2000/FD/S FC/S2000/FD/S	Minuted 0.0100 Reader 502500-4 0.0100 Reader 502500-8 0.0100 Reader A150200-800 BTO Reader A25020-800 BTO Reader 50500-8 0.0100 Reader 50500-8	9508 663 863 863 863 863 863 863 863	Part Possaer 194 32121 197 32128 197 32128 197 32128 198 32128 199 32128 199 32128	5044 17225 17299 19294 19294 - 2009 17895	Namber Internet Inter	Mig. Dure 2017-15-19 2017-10-26 2019-06-04 2019-07-27 - - 2025-09-25 2017-04-05		
Australia	Peaders (14) Prec Prec Prec Prec Prec Prec Prec Prec	Reader Name • COMMENT	Windowi 0.4700 Readler 502500-4 0.4700 Readler 502500-8 0.4700 Readler 502500-8 MIC Readler A250208-800 MIC Readler 50260-8 0.4700 Readler 50260-8 0.4700 Readler 50260-8 0.4700 Readler 50260-8 0.4700 Readler 50250-4	9504 9663 9663 9663 9663 9663 9663 9663	Part Possessen BM 32121 BJ2 32121 BJ2 32121 BJ2 32121 BJ2 32121 BJ2 32121 BJ2 32121 BJ4 32121 BJ4 32121 BJ4 32121 BJ4 32121	5044 17329 17399 19394 19394 19395 17399 17399	Namber Internets Internets Internets Internets Internets Internets	Mg Bar 2014-9 2014-9 2014-9 2014-9 2014-9 2014-9 2014-9 2014-9 2014-9 2014-9 2		
Austation	Readers (14) 7900 7900 7900 7900 7900 7900 7900 7900	Reader Name • COMMUNT If: If: COMMUNT If: If: COMMUNT If: If: COMMUNT If: If: COMMUNT If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: COMMUNT COMMUNT If: If: COMMUNT If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: If: COMMUNT COMMUNT If: If: If: COMMUNT If: If: If: COMMUNT COMMUNT If: If: If: C	Windowi 0.4110 Readler 50/200-4 0.4110 Readler 50/200-4 0.4100 Readler 4/2008-400 MID Readler 4/2008-400 MID Readler 5/2004-400 RISO Readler 5/2004-400	1909 1963 1963 1963 1963 1963 1963 1963 196	Fact Feasier BM 32121 BJ2 32121	5e44 17325 17399 19394 19394 19395 1 25397 17995 1	Namber Indiana	Mg ber 2010-0-10 2010-0-20 200-0-200-0-20 200-0-20 200-0-200-0-200-0-20 200-0-200-00-00-00-00-0		

Troubleshooting

The following table outlines possible troubleshooting cases when using the sled related to data communication, barcode decode, and Bluetooth.

Table 11	Troubleshooting	the	RED4031
	rioubleshooting	uie	RI D4031

Problem	Cause	Solution
The RFID sled does not read tags.	The RF region configuration is not set.	Use the 123RFID Desktop or 123RFDID Mobile application to set the regulatory region or country operation per the application instructions.
The RFID sled is attached to the mobile device and is not responsive to an RFID application, even after the trigger is pressed.	The battery is too low and not able to power the RFID sled.	Press the trigger for a few seconds to power the RFID sled On. The RFID sled LED blinks amber when it is turned On. (By default, pressing the trigger turns On the RFID sled if it is in Off mode. However, the RFID sled can be disabled, in which case this step is unnecessary.) Place the RFID sled in the charging cradle. The RFID sled blinks amber LEDs, indicating charging has commenced.
	The zebra-supported mobile computer is not inserted correctly in the RFID Sled.	Reinsert the Zebra-supported mobile device securely in the RFID sled and ensure the USB cable is correctly inserted.
	Damaged battery.	If the RFD4031 RFID sled LED does not blink amber after sitting on the charging cradle, request the service to replace the battery.
The RFID31 sled is responsive but cannot read tags.	The battery is critically low.	Place the RFID sled in the charging cradle. The RFID Sled LED blinks amber. The RFID sled can be used when its LED turns on momentarily amber or green upon removal from the charging cradle.

Table 11	Troubleshooting the RFD4031	(Continued)
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Problem	Cause	Solution
The RFD4031 RFID sled LED blinks fast amber when in the cradle.	Charging error.	Restart charging by removing the RFID sled from the cradle and inserting it back into it. If the issue persists, request service to replace the battery.
The RFID sled LED blinks red, or LED blinks red alternating with green or amber while in use (not while charging).	Battery end-of-life indication.	Request service to replace the battery.
Zebra-supported mobile computer battery is not charging.	The charging cradle was unplugged from AC power.	Ensure the charging cradle is receiving power.
	The Zebra-supported mobile computer is not fully seated in the cradle.	Remove and reinsert the zebra- supported mobile computer into the cradle, ensuring it is firmly seated in the charging cradle.
Data Communication		
During data communication with a host computer, no data	Sled removed from cradle during communication.	Replace the sled in the cradle and re-transmit.
was incomplete.	Incorrect cable configuration.	See the system administrator.
	Communication software was incorrectly installed or configured.	Perform setup.
During data communication over	The Wi-Fi radio is not on.	Turn on the Wi-Fi radio.
or transmitted data was incomplete.	The user moved out of the range of an access point.	Move closer to an access point.
During data communication over Bluetooth, no data transmitted or transmitted data was incomplete.	The Bluetooth radio is not on.	Turn on the Bluetooth radio.
	You moved out of range of another Bluetooth device.	Move within 10 meters (32.8 feet) of the other device.
Decode		
The sled does not decode with a reading barcode.	The scanning application is not loaded.	Load 123RFID Mobile on the device or 123RFID Desktop on the PC. See the system administrator.
	Unreadable barcode.	Ensure the symbol is not defaced.
	The distance between the exit window and barcode is incorrect.	Place the device within the proper scanning range.
	The device is not programmed to generate a beep.	If the sled does not beep on a good decode, set the application to generate a beep on a good decode.

Problem	Cause	Solution
	The battery is low.	Check the battery level if the sled stops emitting a laser beam upon a trigger press. When the battery is low, the sled shuts off before the low battery condition notification.
Bluetooth		
The device cannot find any Bluetooth devices nearby.	Too far from other Bluetooth devices.	Move closer to the other Bluetooth device(s) within a range of 10 meters (32.8 feet).
	The Bluetooth device(s) nearby are not turned on.	Turn on the Bluetooth device(s) to find.
	The Bluetooth device(s) are not in discoverable mode.	Set the Bluetooth device(s) to discoverable mode.

Table 11 Troubleshooting the RFD4031 (Continued)



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